PATROV, B.V.

Charge and capacity of a double layer in the system cast iron - slag. Izv. vys. ucheb. zav.; chern. met. 4 no.7:33-35 '61. (MIRA 14:8)

1. Leningradskiy politekhnicheskiy institut. (Cast iron—Tosting) (Electrocapillary phenomena)

BATASHEV, K.P.; PATHOVA, G.I.; RYABOV, V.A.; RYTWINSKIY, A.I.

Electrolytic chromizing of titanium alloy products. Irary
LPI no.223:115-124 '63. (MIRA 17:11)

ACCESSION NR: AT4026281

5/2563/63/000/223/0115/0124

AUTHOR: Batashev, K. P.; Patrova, G. I.; Ryabov, V. A.; Ry*tvinskiy, A. I.

TITLE: Electrolytic chromium plating of titanium-alloy parts

SOURCE: Leningrad. Politekhnicheskly institut. Trudy*, no. 223, 1963. Metallurgiya tsvetny*kh metallov (Metallurgy of nonferrous metals), 115-124

TOPIC TAGS: chromium plating, electrolytic plating, electroplating, titanium, titanium alloy, titanium electroplating, corrosion, titanium corrosion, chromium

ABSTRACT: Chromium plating of titanium and titanium alloys makes possible the elimination of one of their main disadvantages, the tendency to seizing, thus widening their field of application. However, chromium plating of Ti encounters the difficulty of poor adhesion between the Cr and the underlying surface, owing to the presence of TiO 2 film. The preliminary treatment of the Ti surface to remove this film is therefore important and has been attempted with a variety of reagents (HF, NaOH, KOH, HNO3 + HF, dichromate + HF + CuSO4, and acetic acid + HF + alternating current). In the present paper the authors discuss the preliminary pickling of the surface of Ti and VT-5 Ti alloy in some detail, as well as working out the optimal conditions for chromium plating and the heat treatment of the plated surface. Pickling with HF, HC1, or H2SO4 was found to be

Cord 1/2

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B/061/62/000/013/022/054 B177/B101

AUTHOR:

Patrovski, V.

TITLE:

A luminophore possessing long afterglow, based on calcium-

strontium sulfide

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 13, 1962, 402, abstract

13K113 (Collect Czechosl. Chem. Communs, v. 26, no. 7,

1961, 1799-1804)

TEXT: A luminescent composition showing prolonged afterglow is prepared on the basis of a (Ca,Sr)SzBi composition, additionally activated by Pb. The initial products of luminescent purity are subjected to further refinement. The charge, consisting of (in g): CaCO₃ 150, SrCO₃ 50, S 60, Na₂B₄O₇, Li₃PO₄ 1 and tartaric acid 5, and also Bi 5 mg. and Pb 3 mg. (in solution), is carefully mixed in a mortar with the addition of alcohol, then dried and roasted. After cooling, the composition is crushed and

roasted in a closed crucible for 30-40 min at 750-850°C, then pulverized

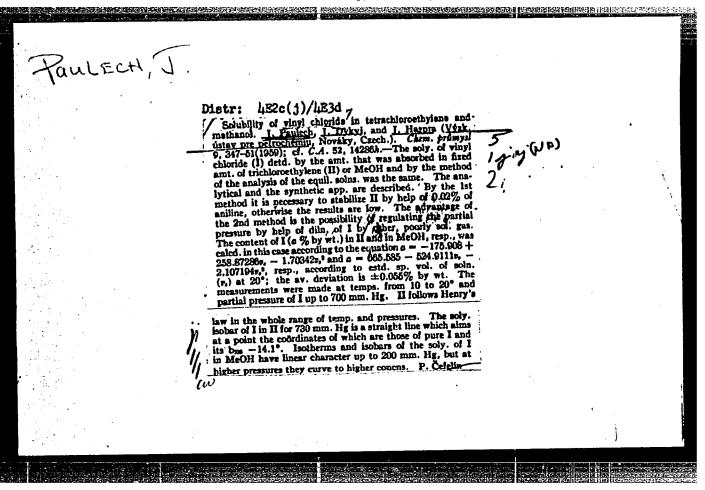
and briefly heated at 450°C. Compositions with a Bi:Pb ratio of

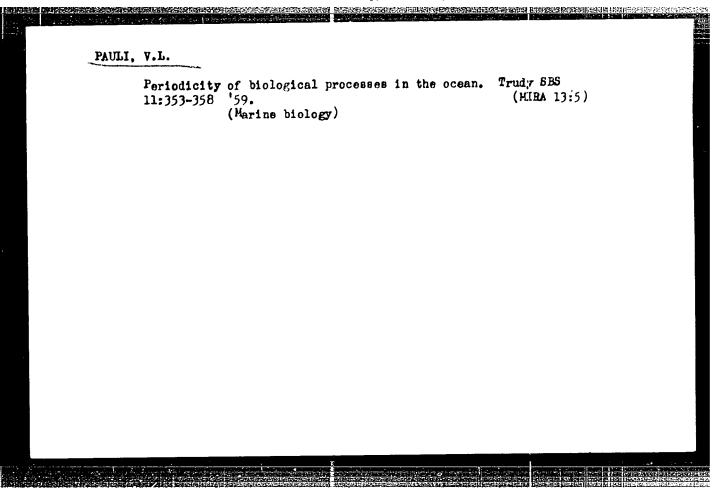
Card 1/2

PATROVSKY, Venceslav Photometric determination of small amounts of silver in cres. Chem listy 57 no.3:268-270 Mr *63. 1. Ustredni ustav geologicky, Praha.

Contribution to the photometric determination of thallium. Chem listy 57 no.9;961-964 S '63.

1. Ustredni ustav geologicky, Praha.





ERDEY, Laszle, Prof.Dr. (Budapest); PAULIK, Ferenc (Budapest)

Derivategraphic investigation of bauxites; thermic decomposition of hydrargillite. In German. Acta chimica Hung. 21 no.2:205-218 (ERAI 9:4)

1. Institute of General Chemistry, Technical University, Budapest. (Bauxite)

(Gibbsite)

81726 \$/020/60/133/01/37/070 B011/B003

5.3200 Authors:

Topchiyev, A. V., Academician, Paushkin, Ya. N.,

Nepryakhina, A. V., Anan'yev, P. G., Dmitrevskiy, N. N.

TITLE:

وللسنافي أراراتها

Retardation of Hydrocarbon Cracking in Molten Sodium and

in Potassium Hydroxide

PERIODICAL:

Doklady Akademii nauk SSSR, 1960, Vol. 133, No. 1,

pp. 134 - 137

TEXT: The authors studied the conversion of n-heptane and cyclohexene at atmospheric and increased pressures in an autoclave in the presence of sodium and KOH. For comparison, they give the results of n-heptane cracking in the presence of molten aluminum. n-Heptane vapor was continuously blown through a layer of molten metal or through a packing of KOH. At $700-800^{\circ}\text{C}_{\circ}$ the vapor had a contact time of ~ 0.5 sec. KOH was applied to active charcoal of the type KAA(KAD). The authors describe the quality of the products used. Table 1 shows that the cracking of n-heptane is inhibited by Na and KOH even at $800^{\circ}\text{C}_{\circ}$. The conversion is only 5-7% as compared to 34-57% without Na or KOH. Unchanged n-heptane was

Card 1/3

Retardation of Hydrocarbon Cracking in Molten S/020/60/133/01/37/070 B011/B003

obtained as a condensate from this cracking. No liquid products are formed. The cracking gas largely differs from that of thermal cracking: the hydrogen content amounts to 60-85% apart from a low content of unsaturated hydrocarbons. n-Heptane is radically changed when it comes into contact with aluminum. The conversion increases with rising temperature and duration of the experiment: at 700°C = 65.3%, at 800°C almost 100%. This is almost the double amount of experiments without aluminum. Both gaseous and liquid products as well as condensation products including carbides are formed. The authors assume that at the initial stage organo-sodium compounds are formed between 700 and 800°C under the separation of hydrogen. The cracking is inhibited by the addition of H2 to the olefins in statu nascendi (see Scheme). Cyclohexene was exposed to a temperature of 400 or 500°C and a pressure rising from 20 to 70 atm, after which the autoclave was gradually cooled. The experiments were performed with and without sodium. At 500°C, cyclohexene is completely resinified without Na (specific gravity of 0.9103), 2% of gaseous products being formed. Slight changes occur in the presence of Na: The iodine number decreases, and about 1.4% of gaues are formed.

Card 2/3

Retardation of Hydrocarbon Cracking in Molten S/020/60/133/01/37/070 Sodium and in Potassium Hydroxide 81726 S/020/60/133/01/37/070

There are 5 tables and 12 references: 7 Soviet, 4 American, and 1 German.

SUBMITTED: April 7, 1960

X

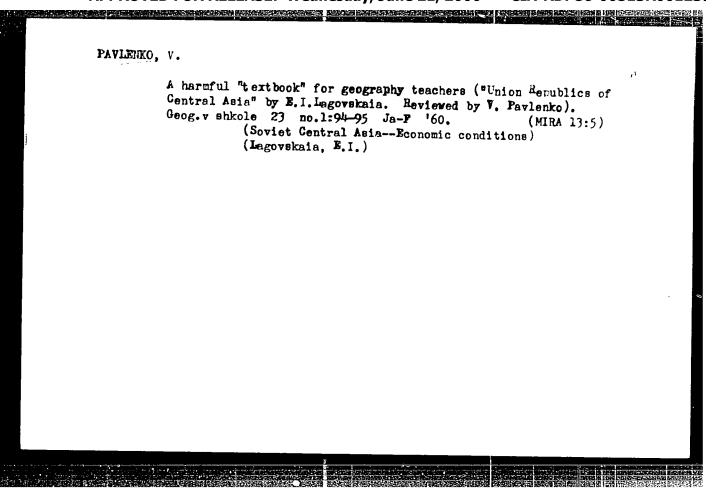
Card 3/3

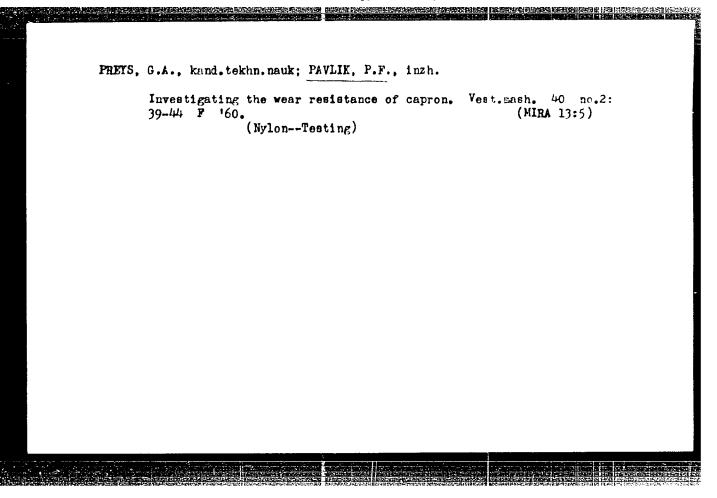
PAYLENKO, S.M.

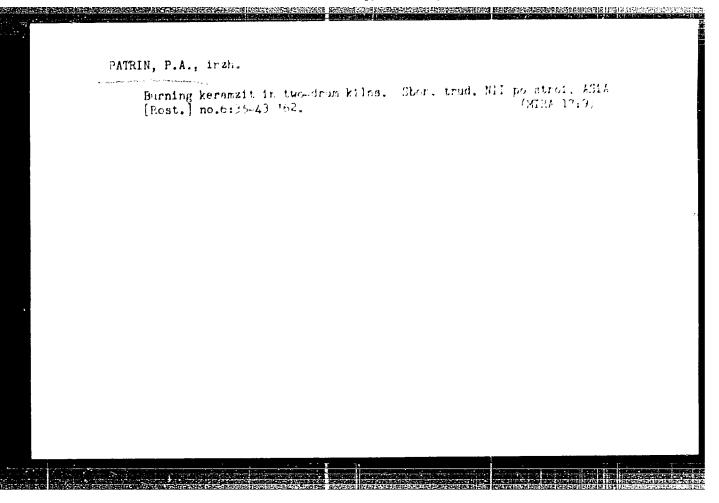
[Methodological procedures and the methodology of experimental medicine; sources of some errors in medicine] O metodicheskikh medicine; sources of some errors in medicine] to be istochniprieskih i metodologii eksperimental noi meditainy; ob istochniprieskih nekotorykh oshibok v meditaine. Moskve, 1959. 22 p.

(MEDICINE, EXPERIMENTAL)

(MEDICINE, EXPERIMENTAL)





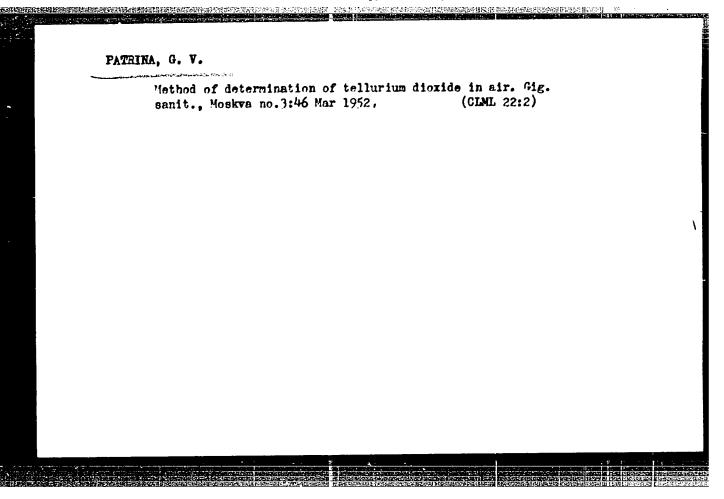


PATRIMA, A. K.

Patrina, A. K.

"On the history of nervism in hussian modicine. A. A. Ukhtomskiy and his role in the development of neurophysicle y and the theory of medicine." First Moscow Order of Lamin Medical Inst imeni I. M. Sechenov. Moscow, 1 ... (Dissertation for the Degree of Doctor in Medical Science).

Knizhnaya letopis No. 15, 1956. Rescow



PATRINA, G. V.

Air - Analysis

Method of determination of tellurium dioxide in the air. Gig. i san. No. 3 March 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1958 Uncl.

PATRINA, G. V.

Tellurium

Method of determination of tellurium dioxide in air. Gig. i san. No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1957? Uncl.

, 1987年 - 1987年 - 1987年 - 1988年 - 19

PATRINA, G. V.

Tellurium

Method of determination of tellurium dioxide in air. Gig. i san, No. 3, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1953 Uncl.

PATRINA, G. V.

Air - Analysis

Method of determination of tellurium dioxide in the air. Gig. i san. No. 3 March 1952.

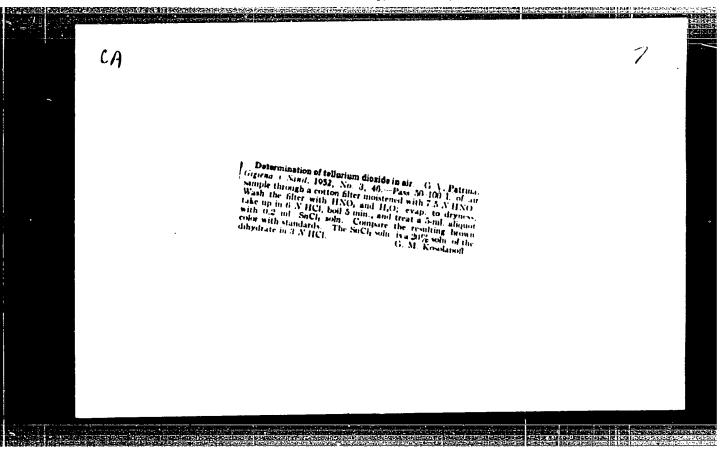
9. Nonthly List of Russian Accessions, Library of Congress, August 1952 Unclassified.

PATRINA, G. V.

Tellurium

Method of determination of tellurium dioxide in air. Gig. i san. No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952 1953, Unclassified.



Understanding of the meaning of words by preschool children. Vot. psikhol. 5 un.4:59-63 Jl-vs 15.
1. Karachayevskiy cosučarstvennyy pedagogichoskiy institut. (ChildrenLanguage)

tatrine, WA

USSR/Phase Transformation in Solid Bodies.

E-6

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11734

Author

: Prosvirin, V.I., Patrina, N.A.

Inst

Title

: Isothermal Hardening of High-Strength Cast Iron with

Spheroidal Graphite.

Orig Pub

: Metallovedeniye i obrabotka Metallov, 1955, No 2, 42-50

Abstract

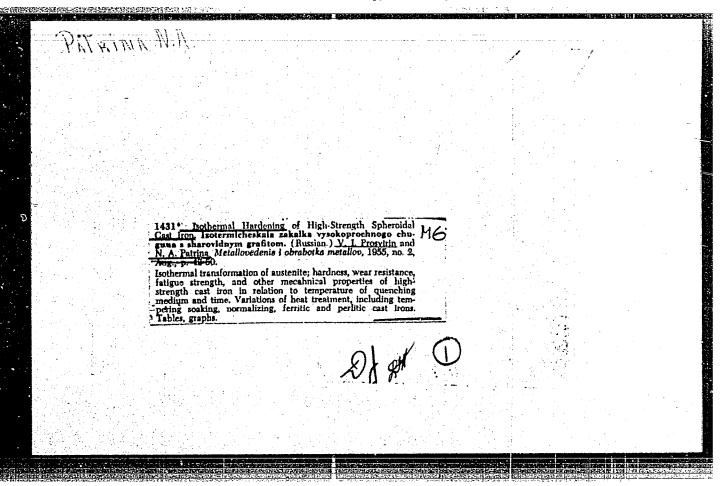
: No abstract.

Card 1/1

PAPPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123

"Structural Conversions and the Change of Properties of High-Strength Cast Iron With Globular Graphite During Heat Treatment." Cand Tech Sci, Central Sci Res Inst of Technology and Machine Building-TsNITTNash, 22 Feb 54. Dissertation (Vechernyaya Moskva Moscow, 11 Feb 54)

SO: SUM 186, 19 Aug 1954



5(3) AUTHORS:

Lin'kova, M. G., Patrina, N. D.,

sov/20-127-3-23/71

Knunyants, I. L., Academician

TITLE:

A New Method of Producing Propiothiolactone.

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 3, pp 564-566

(USSR)

ABSTRACT:

Under the influence of chloro carbonic acid ester, $\beta\text{-propiothiolactone}$ is developed by $\beta\text{-mercapturic}$ acids (Refs 1-3) in the presence of triethylamine. It proved, however, that the same thiolactones can be developed more easily by an influence of H_2S on the chlorides of $\beta\text{-halogen-carboxylic}$ acids. The extension of the reaction (I) on the chlorides of other β -halogen-carboxylic acids showed that the new method is of universal validity for the production of $\beta\text{-propiothiolactone}$. A careful investigation of the formation conditions of $\alpha\text{-propiothiolactone}$ showed that, according to the permanence of the developing $\beta\text{-propiothiolactone}$, in some cases sodium sulphide may be used instead of H_2S . In order to prevent

Card 1/2

a splitting of the developing thiolactone, the temperature

A New Method of Producing Propiothiolactones

SOV/20-127-3-23/71

has to be kept low, the theoretical amount of triethylamine has to be used and too great an excess of H₂S has to be

prevented. Besides, the formation possibility of α , α -diphenyl- β -propio-thiolactone by dehydration (angidratizatsya) of α , α -diphenyl- β -mercapto-propionic acid was proved; for this purpose one may use either chlorocarbonic ester or anhydride of phosphoric acid. The dehydration of β -oxy-acids, however, acids place under the development of unsaturated α , β carboxylic β -propiolactone develops, but a reaction takes place contrary to the aldol condensation (Refs 4,5) (see scheme). β , β -ditriphorine-methyl- β -oxy-propionic acid is an exception, since β , β -diffuorine-methyl- β -propiolactone was produced from it recently, in the laboratory mentioned in the Association. There

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute for Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

May 20, 1959

Card 2/2

5 (3) AUTHORS: Lin'kova, M. G., Patrina, N. D., Knunyants, I. L., Academician SOV/20-127-4-19/60

TITLE:

Addition of Alkyl-sulphenchlorides to Acrylic Acid Derivatives

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 127, Nr 4, pp 799-802

(USSR)

ABSTRACT :

According to the polarity of the chlorides, referred to in the title the addition mentioned there does not present any difficulties resulting in the formation of $\alpha\text{-alkyl-thio-}\beta\text{-chlorine-substituted}$ acids (see Scheme) (Ref 1). It was necessary to check the data contained in reference 2, in which the author ascribes the structure of the $\alpha\text{-chloro-}\beta\text{-alkyl}$ thioderivatives of propionic acid to these addition products (see Scheme). Further investigations of the reaction mentioned in the title, by the authors have again confirmed the opinions stated by them before and have refuted the opinion expressed in reference 2, before and have refuted the opinion expressed in reference 2, i. e. the addition of the ethyl-sulphen-chloride to acrylic, methacrylic, and dimethyl-acrylic acid, to the acrylonitrile, as well as to the acid chloride and the ethyl ester of dimethyl acrylic acid results in the formation of β -chloro-x-alkyl thioderivatives of propionic acid (see Scheme). During this

Card 1/3

Addition of Alkyl-sulphenchlorides to Acrylic Acid SOV/20-127-4-19/60 Derivatives

reaction the ethyl-sulphen chloride is easily added to esters, while it is more difficult to add it to acids and nitriles, and most difficult to add it to acid chlorides (Ref 1). From the acid chlorides of 3-chloro-u-alk thioderivatives of propionic acid corresponding β -propiothiolactones (Ref 5) were obtained by means of H₂S (see Scheme). With an order other than that

illustrated by the scheme, the formation of the said lactones would be impossible. Without cogent reasons Gundermann has given his consent to the assertions of Brintzinger (Ref 2) according to which the alkyl thiogroup assumes a \$\beta\$-position under the action of sulphen chlorides on acryl systems, whereas the chlorine atom assumes an \$\alpha\$-position. To give a definite explanation of this problem the authors prepared \$\alpha\$-chloro-ethyl thiopropionitrile (I) and \$\alpha\$-ethyl thio-\$\beta\$-chloro propionitrile (II) and compared their properties with one another By adding ethyl mercaptan to \$\alpha\$-chloro acrylonitrile (Ref 7) the following reaction was brought about:

Card 2/3 $CH_2 \longrightarrow CC1CN \xrightarrow{C_2H_5SH} C_2H_5S \longrightarrow CH_2 \longrightarrow CHC1CN$ (1).

Addition of Alkyl-sulphenchlorides to Acrylic Acid SOV/20-127-4-19/60

while by the addition of ethyl sulphen chloride to acrylonitrile the following reaction took place:

 $cH_{2} \xrightarrow{c_{1}H_{5} sc_{1}} cH_{2}clcH(sc_{2}H_{5})cN$ (11)

It was found that I and II showed the same boiling point, refractive indices and specific weights whereas they differ greatly in their chemical properties; nor are their infrared spectra the same (Figs 1 and 2). Hence, the negative charge in alkyl sulphen chlorides is concentrated on the chlorine atom, and that alkyl-sulphen chlorides are added to acryl systems according to the above polarization thus forming 1-alkyl thioderivatives. There are 2 figures and 7 references, 2 of which

ASSOCIATION:

Institut elementoorganicheskikh soyedineniy Akademii nauk 33SR (Institute for Elemental-organic Compounds of the Academy of Sciences, USSR)

SUBMITTED: Card 3/3

May 20, 1959

Reutov, O. A., Ptitsyna, O. A., Patrina, N. D. 79-28-3-5, 61 AUTHORS: Double Diazo Salts of Stannic Trichloromethyl and of Stannic Dichlorodiethyl (Dvoynyye diazoniyevyye soli trekhkhloristogo TITLE: metilolova i dvukhloristogo dietilolova) Zhurnal Obehchay Khimii, 1958, Vol. 28, Nr 3, pp. 586-592 PERIODICAL: (USSR) According to a method for the synthesis of double diazo salts of antimony organic compounds (ref. 4) elaborated by one of ABSTRACT: earlier, the authors work carried out the synthesis of the double diazo salts of stannic trichloromethyl. These salts were synthetized by an aceton solution of the pouring together in the cold freshly produced ArN2Cl.FeCl3-salt with the methyl alcohol solution of CH_3Sn00H which was saturated with hydrogen chloride: CH3ShOOH + 3HCl -> CH3ShCl3 + 2H2O, 2ArH2Cl.FeCl3 + + CH3SnCl3 -> (ArN2Cl)2.CH3SnCl3 + 2FeCl3. The salts $(c_6H_5N_2cl)_2.cH_3Sncl_3$ and $(p-c_7H_7N_2cl)_2cH_3Sncl_3$, and others card 1/3

Double Diago Salts of Stannic Trichloromethyl and of Stannic 79-28-3-5/61 Dichlorodiethyl

could not be obtained in this way. Therefore an one-step method for the synthesis of the diszo salts of stannic trichloromethyl was elaborated as follows: the chlorido solution of CH_3SnOOH was added to a diazo solution which had been obtained by diazotizing an aromatic amine in hydrocaloric acid by means of sodium-nitrite - this immediately leading to a precipitate of (ArN2Cl)3.CH3SnCl3-salt. The use of o--toluidine did not furnish any diazo salt. The double diazo salts of stannic trichloromethyl obtained according to either method are mentioned in table 1. In the synthesis of the double diazo salts $(C_2H_5)SnCl_2$ another method had to be used: the chloride of the amine was dismolved in alcohol and then diazotized with isoamylnitrite. The stannic dichlorodiethyl dissolved in alcohol was then added to the diago solution. The formation of the double salt $(c_2H_5)_2SnCl_2$ can be represented by the following reaction process:

Card 2/3

Double Diazo Salts of Stannic Trichloromethyl and of Stannic 79-28 3-5/61 Dichlorodiethyl

synthetized this way are mentioned in table 2. There are

2 tables and 5 references, 4 of which are Soviet.

ASSOCIATION:

Moskovskiy gosudarstvennyy universitet

(Moscow State University)

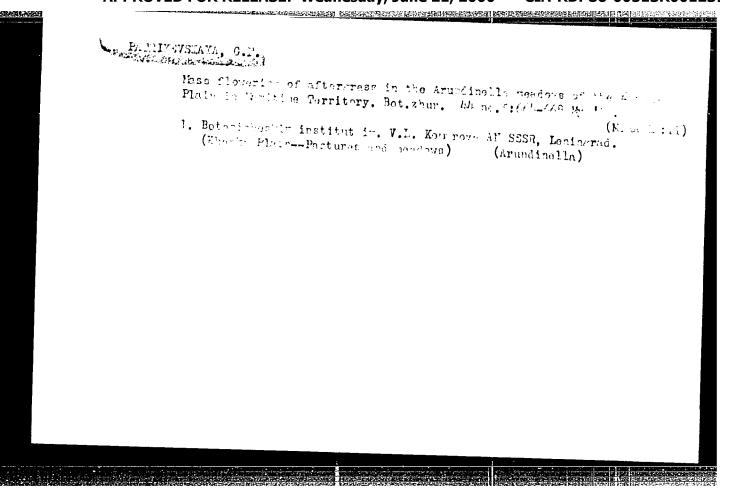
SUBMITTED:

February 7, 1957

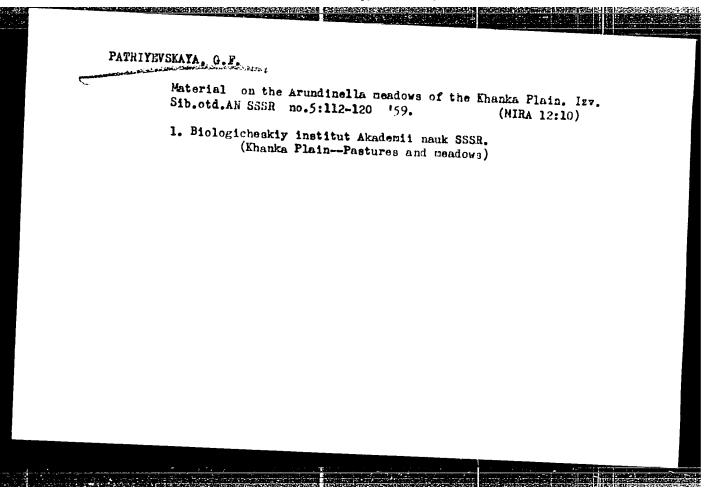
Card 3/3

USSR COUNTRY Meadow Cultivation. CATEGORY ABS. JOUR. : REhelol., No. 3, 1959, No. 10829 : Patriyevskaya, G. F. : The Influence of Spring and Autumn Fertilizers and Burned : Siberian Division, AS USSR **AUTHOR** Vogotation on Some Mondow Formations in Prikhankayskaya INST. TITLE : Izv. Sibirek. otd. AN SSIR, 1958, No. 3, 108-120 The Etological Institute of the Far Rastern Affiliate, AS ORIG. PUB. USSR has been investigating for a number of years the natural meadow lands of Prikhankayskaya Plain in Primor-ARSTRACT skiy Kray. In 1954-1955, there were organized at one of the kolkhozes experiments in the application of mineral fertilizers on the meadows. Experiments with the autumn Pertilisers were set up on arundincous meadow with an admixture of colerine and the experiments with the soring fortilizer on bentgrass mendow with an admixture of fesous. The fertilizers were applied according to the fol-CARD: 1/3

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PATRIYEVSKAYA, C. F.: Master Biol Sci (diss) -- "The meadeus of the kolkhoz imeni Ill'ich (village of Astrakhanka) Khankayskiy Rayor, Primor'ye Kray, and methods of improving them". Leningrad, 1958. 20 pp (Acad Sci MSSF, Botanical Inst im V. L. Komarov), 150 copies (KL, No. 4, 1959, 130)

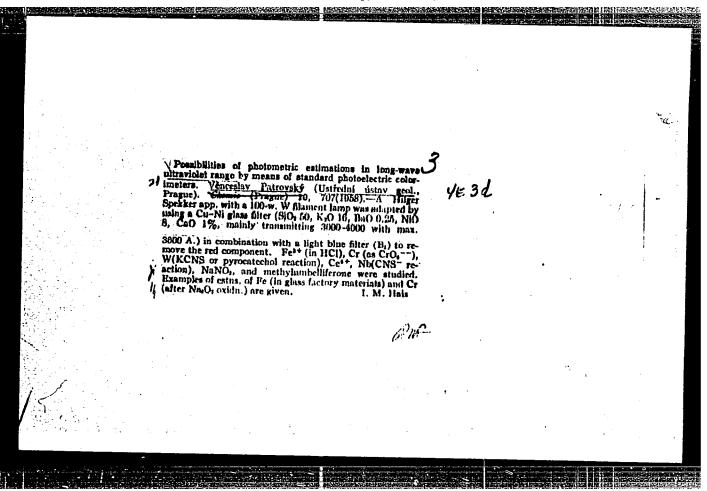


PATRIYEVSKAYA, G.F.

Effect of spring and fall application of fertilizers and fires on some meadow plant communities of the Khanka Plain. Izv. Sib. otd. AN SSSR no.3:108-120 '58. (MIRA 11:8)

1.Dal'nevostochnyy filial AN SSSR 1 Biologicheskiy institut AN SSSR.

(Khanka Plain--Pastures and meadows) (Fertilizers and manures) (Burning of land)



Partical, R.	
"Ore-dressing plant with conveyable ap	nd multilacket londer."
hutnik. Praha, Czecnoslovakia. Voz.	9, no. 3, Mar. 1959.
Monthly list of East European Accessio	ns (MEAL), 10, Vol. 4, No. 0, Jun 57, Unc.
	, 10. 0, cun 57, one.

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PATRNA, Helana, MUDr.

Analysis of two cases of habitual abortion. Cas. lek. cesk. 94 no.23:629 3 June 55.

1. (Diskuse k praci MUDr. Jaroslava Horekeho v ClC z 12, II 1954.) Vlastni pozorovani.).

(ADORTION
habitual, analysis of case.)
```

MOTAS, I. C.; PATROESCU, C.

的东西市场的大型,在1918年,1918年,1919年,1919年,1919年

A Meetian andesitic tuffite of Oltenia. Comunicarile AR 11 no.9: 1105-1109 S 161.

1. Institutul de geologie, geofizica si geografie al Academiei R.P.R.; Catedra de mineralogie si petrografie, Facultatea de geologie-geografie, Universitatea "C. I. Parhon," Bucuresti. Comunicare prezentata de M. G. Filipescu, membru corespondent al Academiei R.P.R.

RADULESCU, Dan P.; PATROESCU, Constantin

Wave of alteration in magmatic rocks under the action of exogenous agents. I. Andesites. Studii cerc geol 6 no.3:561-580 '61.

1. Comunicare presentata de M. Savul. membru corespondent al Academiei R.P.R. si membru al Comitetului de redactie, "Studii si cercetari de geologie.

PATROLSON, DO

17

SURNAME (in caps); Given Names

Country: Rumania

Academic Degrees: -not given-

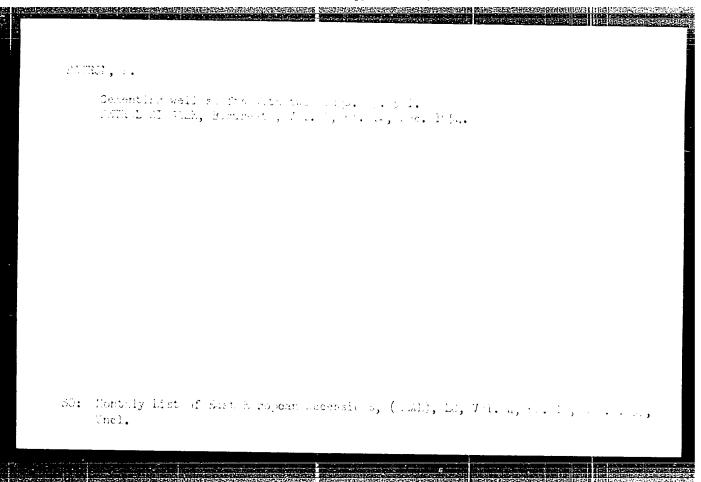
Affiliation: -not given-

Source: Bucharest, Comunicarile Academiei Republicii Populare Romine, Vol XI, No 9, 1961, pp 1105-1109.

Data: "On an Andesitic Meotian Tufite of Oltenia."

Authors:

MOTAS, I. C. PATROESCU, C.



PATRON, T.

Combating filtration of cement slurry. p. 72
PETROL SI GAZE, Bucuresti, Vol 7, No. 2, Feb., 1956

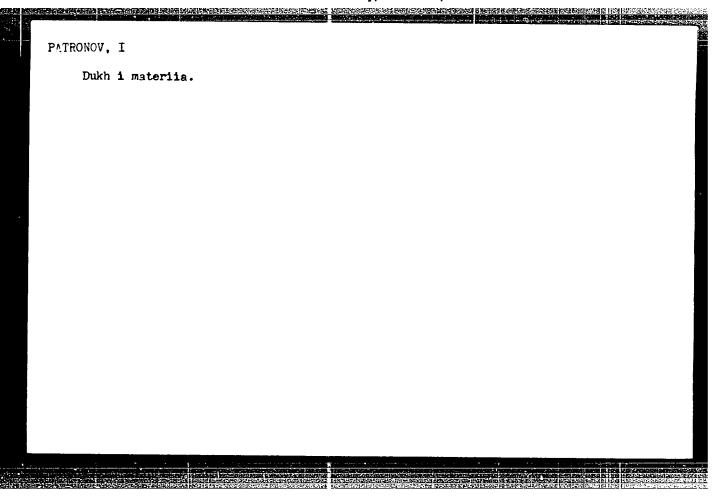
SO: East European Accessions List (EEAL) Library of Congress, Vol 5, No. 7, Judy, 1956

PATRONOV, I.

Itogi sovremennago vozdukhoplavaniia v primienenii k voennomu dielu. / Summary of present day aeronavigation, as applied to military matters /. S.-Peterburg, 1911. 63 p. maps.

DLC: UG630.P33

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.



PATRNA, Helena, MUDr

Experience in therapy of typhoid fever with chloromycetin. Cas. lek.cask. 91 no.12:368-371 21 Mar 52.

1. Z infekcniho odd. Stat. obl. nemocnice v Liberci, prednosta
MUDr Vaclav Hasek.

(TYPHOID FEVER, therapy,
chloramphenicol)

chloramphenicol)
(CHLORAMPHENICOL, ther. use,
typhoid fever)

BODNER, Vasiliy Afanas'yavich, prof., doktor tekhn. nauk; KOZLOV, Mikhail Stepanovich; PATROV, B.N., akademik, retsenzent; IZVOL'SKIY, Ye.G., kand. tekhn. nauk, dotsent, retsenzent; MIKHALEV, I.A., kand. tekhn. nauk, retsenzent; SUVOROVA, I.A., red. izd-va; PUKHLIKOVA. N.A., tekhn. red.

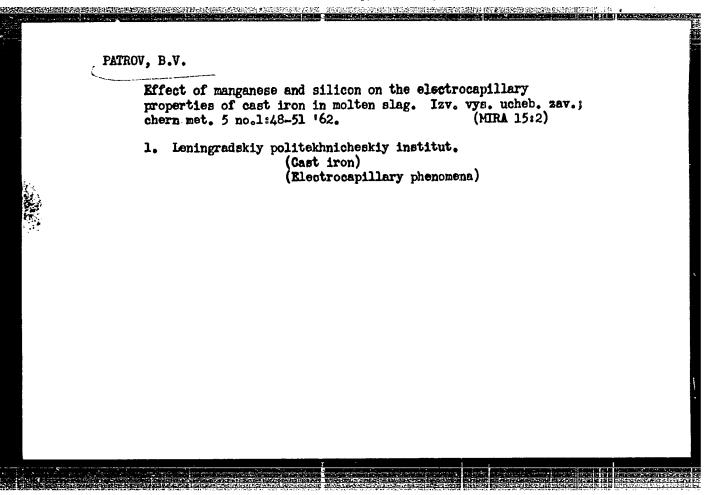
[Automatic pilots and the stabilization of aircraft] Stabilizatsiia letatel'nykh apparatov i avtopiloty. Pod red. V.A.Bodnera. Moskva, Gos.nauchno-tekhn.izd-vo Ovorongiz, 1961. 508 p. (MIRA 14:12)

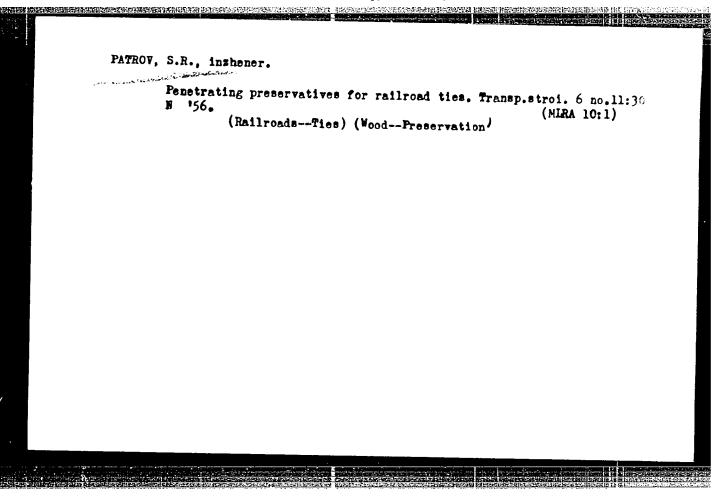
(Automatic pilot (Airplanes)) (Stability of airplanes)

PATROV, B.V., insh.

Electrocapillary phenomenn in the iron - slag system. Izv.77s. ucheb.zav.; chern.met. 2 no.6:3-? Je '59. (MIRA 13:1)

1. Leningradskiy politekhnichoskiy institut. (Electrocapillary phenomena)

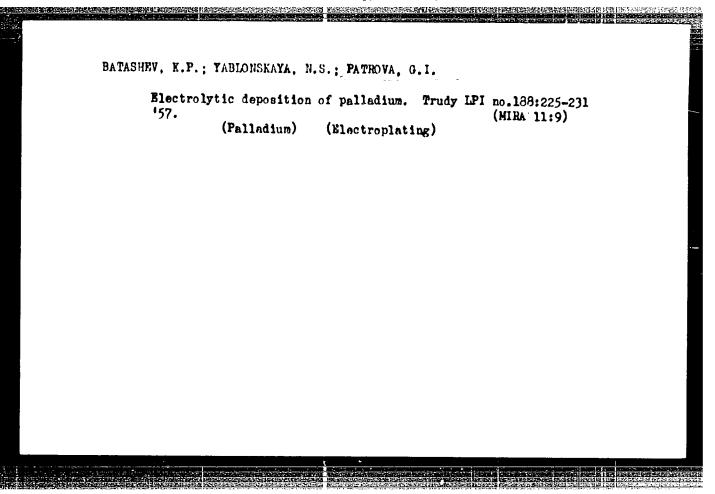




VULIS, Lev Abremovich: Katsikarov, Vasiliy Petrovich; PATRON,

V.Z. red.

[Theory of Jets of viscous fluids] Teorita strui viazkoi
zhidkosti. Moskva, Nauka, 1965. 431 p. (MIRA 18:9)



PATROVA, GI

137-58-5-10268

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 197 (USSR)

AUTHORS: Batashev, K.P., Yablonskaya, N.S., Patrova, G. I.

TITLE: Electrodeposition of Palladium (Elektroliticheskoye osazhdeniye

palladiya)

PERIODICAL: Tr. Leningr. politekhn. in-ta, 1957, Nr 188, pp 225-231

ABSTRACT: An investigation is made of the processes involved in palladium plating in phosphorus electrolyte (E) in a stationary bath and in a bell-type bath, and also in neutral E with soluble anodes. Palladium plating in quiet E was run under the following conditions: Solution of 2.5-10 g PdCl₂/liter, 2.5 g benzoic acid/liter, 20 g (NH₄)₂HPO₄ per liter, 100 g Na₂HPO₄/liter, pH6.5-7.0. temperature 50°C, D_K=0.1 amp/cm², potential 1 or 2 v. Pt. Pd. and carbon anodes were tried. Carbon electrodes are recom-

mended for large-scale industrial palladium plating. The Pd was deposited directly on parts made of polished phosphorus bronze. It is shown that 1.5-2 micron bright Pd platings can be produced in phosphate E containing from 5 to 10 g PdCl₂ per liter, the temperature of the solution being 50°C. The dependence of current efficiency in Pd deposition upon the bath content of PdCl₂

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137-58-5-10268

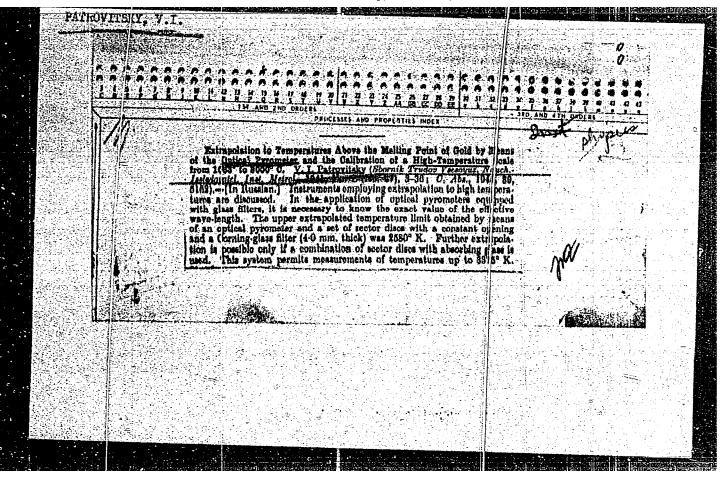
Electrodepositon of Palladium

(1-10 g/liter) and upon current density (0.05-0.2 amp/dm2) is investigated. The highest current efficiency is that at 10 g PdCl2/liter and DK= 0.1 amp/dm2. The polarization curve of the Pd deposition process can be divided into 3 segments. In the first segment the process occurring does not involve liberation of Pd. The second segment is that in which the Pd2+ +2e - Pd reaction occurs. Liberation of H2 in addition to Pd is observed during the period represented by the third segment. The maximum current for the Pd2f+ 2e - Pd reaction is that occurring at $D_K = 0.15$ amp/dm². It is shown that a reduction in the PdCl2 content of the bath to less than 2.5 g/liter results in a dark deposit and diminishes the current efficiency. A 4-liter bell has been designed to mechanize the palladium plating of small parts. Under the same conditions as those used in a quiet bath, and with a 10-dm² area of part surface to be plated. bright Pd deposits of 1.5-2 micron thickness were obtained. The porosity of the Pd deposit is determined by immersion in a 15% HNO3 solution for 10-30 min. The pores are marked by the points at which bubbles attach to the surface. It is found that the number of pores goes as high as 25 per cm2 in a coating 0.1 micron thick, while no pores are found in a 3.5-micron coating. It was found that it is possible to coat with palladium in neutral E with soluble Pd anodes, provided that an area of insoluble carbon anodes equal to 1/3 the area of the Pd anodes is had in parallel.

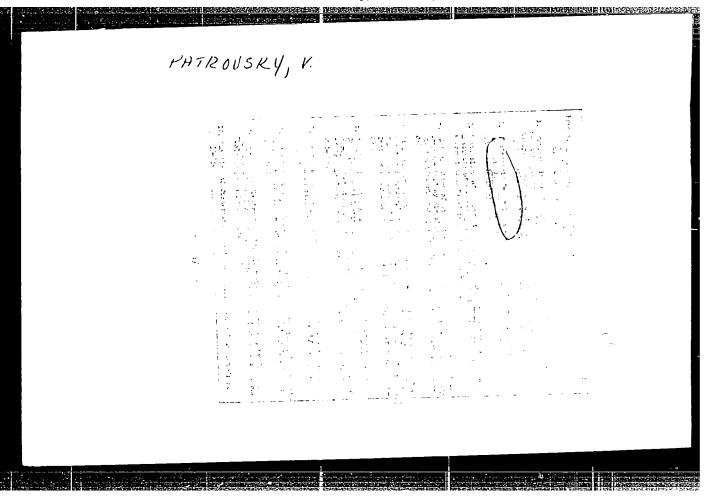
Card 2/2 1. Palladium-Electrodeposition

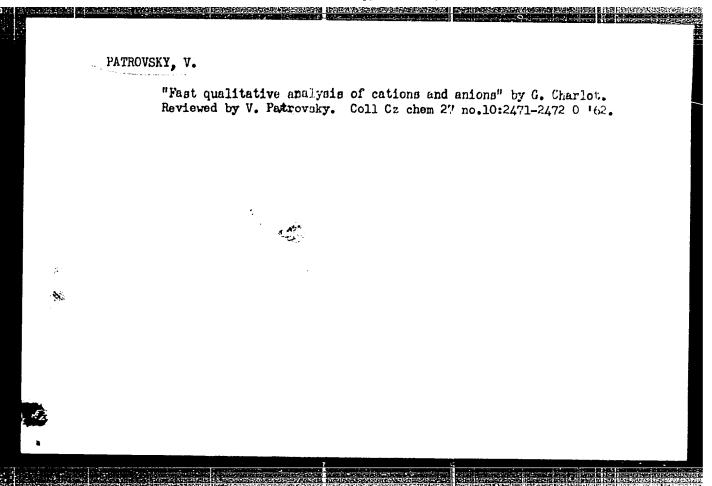
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"APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

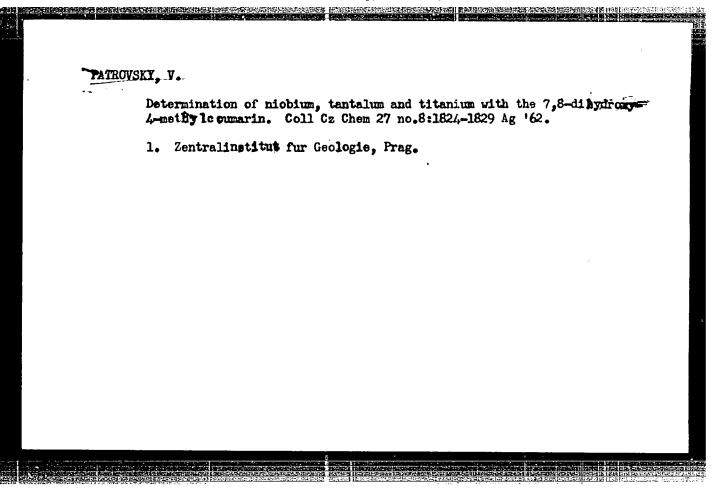


A luminiphor with long-lasting afterglow based on calcium strontium sulfide. Coll Cz Chem 26 no.7:1799-1804 Jl '61. 1. Institut mineral nogo syr'ia. Praga.	
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L 34437-66 EWP(t)/ETI IJP(c) JD/JG ACC NR: AP6026223 CZ/0008/65/000/012/1464/1468 SOURCE CODE: AUTiOR: Patrovsky, Venceslav B ORG: Central Institute of Geology, Prague (Ustredni ustav geologicky) TITIE: Photometric determination of small quantities of niobium and tantalum in minerals SOURCE: Chemicke listy, no. 12, 1965, 1464-1468 TOPIC TAGS: photometric analysis, chemical identification, miobium, tantalum, quantitative analysis The best results in photometric determination of Nb and ABSTRACT: Ta are obtained by means of pyridylazoresorcin and thiazolylazoresorcin. The mineral sample is melted with sodium carbonate, extracted with water, dried, dissolved in HCl, dried, redissolved, treated with sulfuric and hydrofluoric acids, melted with KHSQ and dissolved in water. No and Ta are separated from W, Sn, and Ti by solvents, and No is determined photometrically using thiazolylresoroin. Ta is determined photometrically using p-dimethylaminophenylfluorone. The method is suitable for the determination of 5-100 microns of Nb20g and 20-400 Ta20g. Orig. art. has: 2 tables. /JPRS: 34.669/ SUB CODE: 07, 20 / SUBM DATE: 260ct64 / ORIG REF: 007 / SOV REF: 002 OTH REF: 006 Cord 1 nan 777



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A058/A101

24.3500 (1137,1138,1395)

AUTHOR:

Patrovski V.

TITLE:

Calcium-sulfide and strontium-sulfide luminophors possessing protract-

ed afterglow

PERIODICAL: Referativnyy zhurnal, Fizika, no. 2, 1962, 55-56, abstract 2V441

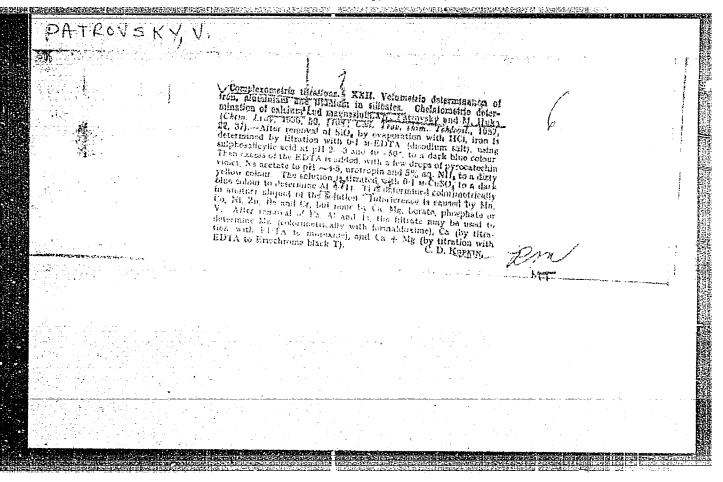
("Collect. Czechosl. Chem. Communs", 1961, v. 26, no. 7, 1799-1804,

German summary)

TEXT: It was established that a small amount of Pb substantially increases the afterglow of Bi-activated calcium sulfide (CaS) and strontium sulfide (SrS). The conditions for producing this luminophor were determined and its characteristic properties were measured. The afterglow of this luminophor is several times greater than that of the substances possessing protracted afterglow that have been known up to the present.

[Abstracter's note: Complete translation]

Card 1/1



PATROVSKY, V.

SCIENCE

Periodical COLLECTION OF CZECHOSLOVAK CHEMICAL COM UNICATIONS. SBORNIK CHEKHOSLOVATSKIKH KHIMICHESKIKH RABOT. Vol. 23, no. 1, Jan. 1958.

PATROVSKY, V. A new method of separating and estimating rhenium. In German. p. 85.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 3, March, 1959. Uncl.

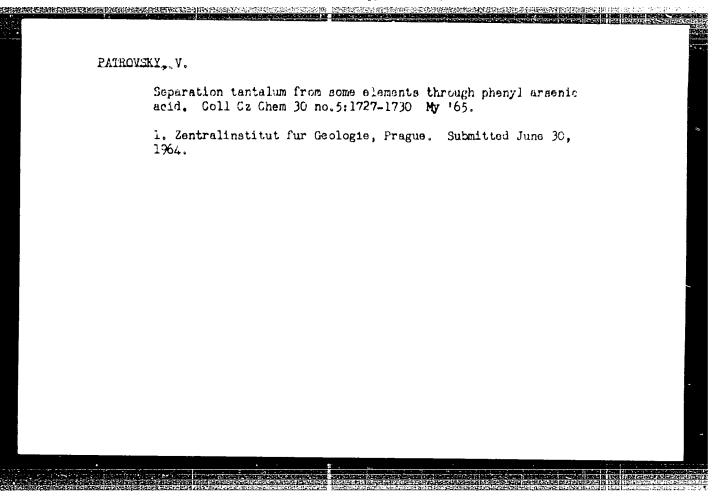
PATROVSKY, V.

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Periodical CHEMICKE LISTI. Vol. 52, no. 2, Feb. 1958.

PATROVSKY, V. Use of complexones in chemical analysis. LIII. Photometric estimation of niobium and tantalum with catechol and ethylenediaminetetraacetic acid. p. 255.

Monthly List of East European Accessions (EMAI) LC, Vol. 8, no. 3, March, 1959. Uncl.



PATROVSKY, Venceslav, inz. CSc.

Petermining small amounts of tungsten, tin, niobium, tantalum, scandium, indium, thalium and lithium in Krusne hory raw materials and products thereof. Rudy 13 no.3:89-1. Mr '65.

1. Central Geological Institute, Prague.

CZECHOSLOVAKIA / Analytical Chemistry. Analysis of E Inorganic Substances.

Abs Jour: Ref Zhur-Khim, No 12, 1959, 42080.

Author : <u>Patrovsky</u>, V. Inst : Not given.

Title : Application of Complexons in Analytical Chemistry.

LIII. Photometric Determination of Niobium and Tantalum with Use of Pyrocatechin and Ethylenedi-

aminetetraacetic Acid.

Orig Pub: Collect. czechosl. chem. commun., 1958, 23, No 9,

1774-1781.

Abstract: No abstract. See Ref Zhur-Khim, 1958, No 23,

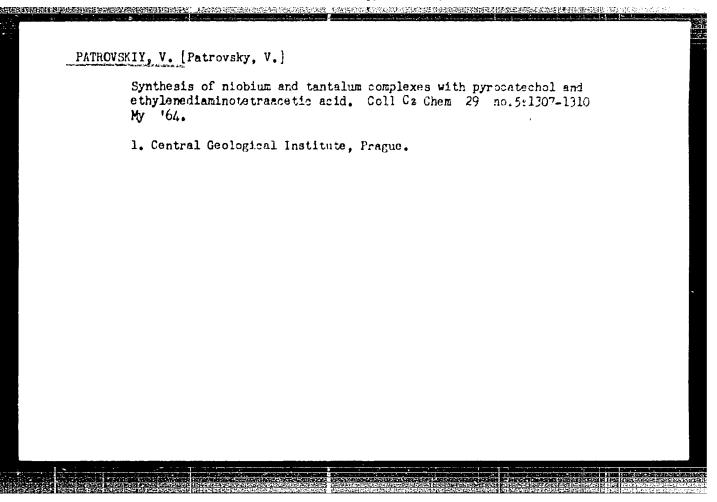
77256. Report LII see Ref Zhur-Khim, 1958, No 19,

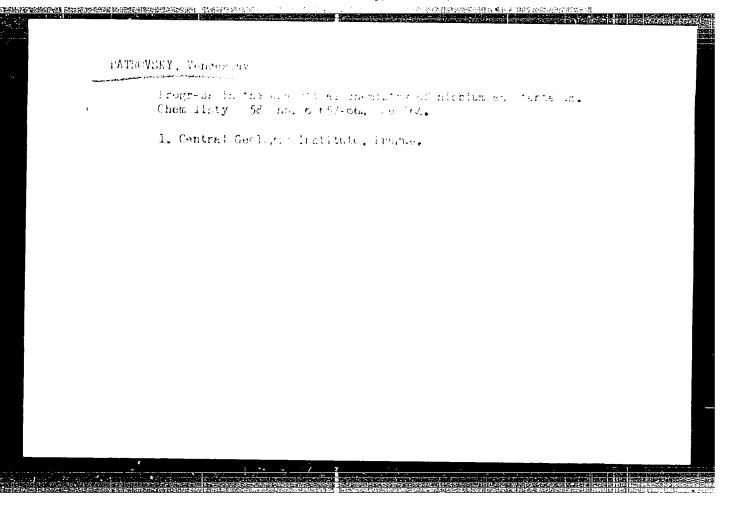
64162.

Card 1/1

E-10

Contribution to the flame photometric determination of scandium, yttrium, erbium and ytterbium. Coll Cz Chem 26 no.9:2445-2449 '61. 1. Institut fur anorganische Bahstoffe, Prag. (Photometry) (Scandium) (Yttrium) (Erbium) (Ttterbium)

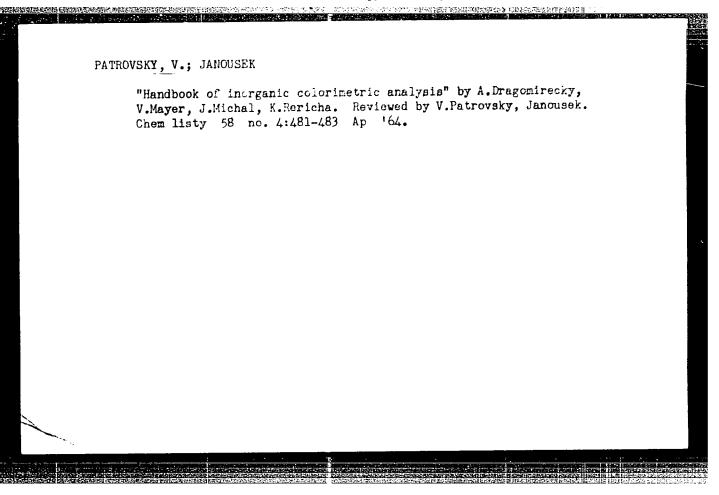


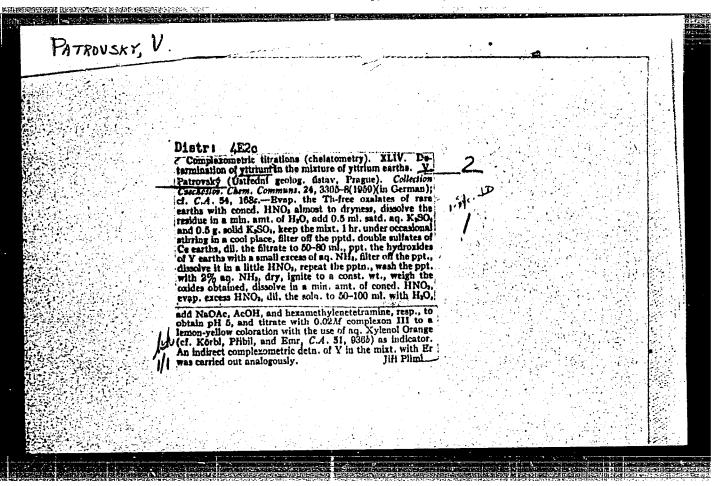


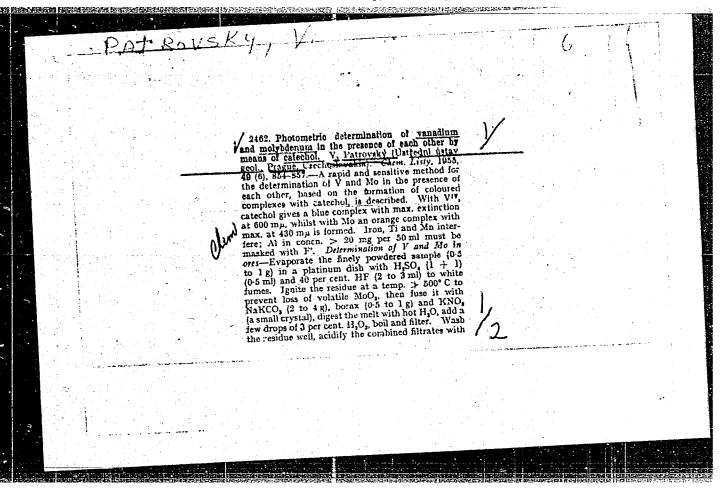
PATROVSKY, Venceslav, inz. CSc.

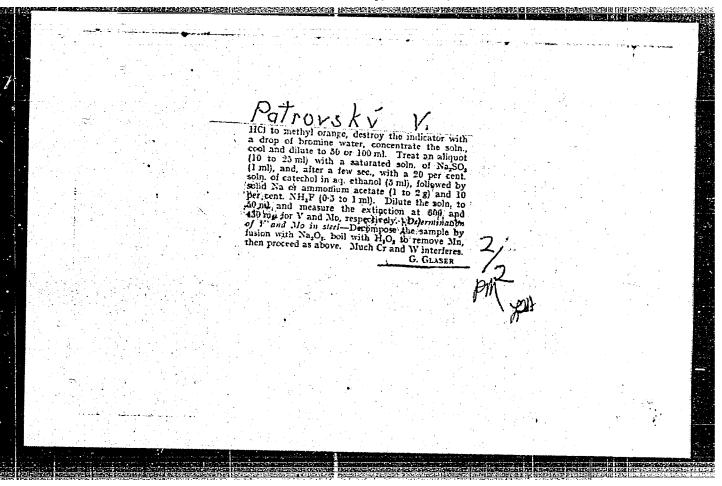
Photometric determination of mercury and silver by dithizone.
Rudy 12 no.6:207-208 Je '64.

1. Central Geologic Institute, Prague.









L 46888-66 ACC NR: AP6028173 (A) SOURCE CODE: 'CZ/0078/66/000/006/0014/0014 AUTHOR: Patrovsky, Vaclav; Chlumsky, Vaclav (Engineer; Plzen) 24 R ORG: none TITLE: Protective antithermal tube in nuclear reactor. CZ Pat. No. PV 10-65, Class 21 SOURCE: Vynalezy, no. 6, 1966, 14 TOPIC TAGS: nuclear reactor, reactor fuel element, thermal shock protection ABSTRACT: A tube for protection against thermal shocks in a nuclear reactor channel system has been introduced. The tube, which is either fixed or detachable, is mounted on the end of the fuel element casing, where it can simultaneously serve to compensate for the neutron flux. [KP] SUB CODE: 18/ SUBM DATE: 03Jan65/ Card 1/1 sla

Analytical Chemistry of Rare Elements

SOV/4759

for the analysis of the rare and dispersed elements. the methods described here have been checked and verified in Czechoslovak research laboratories; the rest have been borrowed from Czechoslovak and foreign literature on analytical chemistry. The book consists of a general and a special part. The general part briefly describes systematic procedure in the analysis of the rare and dispersed elements, reviews present-day methods of chemical analysis, including those for the qualitative and quantitative analysis of the rare and dispersed elements in mineral stock and raw materials, and in several products of metallurgical processes. The special part contains a description of the most important natural compounds of each of the elements studied, and deals in detail with concentration methods and basic methods of qualitative and quantitative determinations. The author thanks Doctor V. Sykora. The editor of the Russian edition of the book thanks Yu. N. Knipovich and M. P. Belopol'skiy. There are 449 references, most of which are Czech, English, and German. The 38 Soviet references given encompass Soviet literature in the field to 1953. The balance of the references includes non-Soviet literature to 1955.

Card 2/11

PATROVSKY, Venceslav, inz.

Mutual influencing of the inductivity of transistor receiver parts. Sdel tech 11 no.9:349-350 S '63.

"Analyticka chemic vzacnych prvku. / Pyd. 1.7 Praha, Statni makl.technicke literatury, 1956. / Analytic chemistry of rare elements. 1st ed. illus., bibl., graphs, index, tables/."
p.167 (Praha, Czechoslavakia)

Monthly Index of East European Accession (EFAI) LC, Vol. 7, No. 8, August 1 56

PATROVSKY, V.

"A new met od of seperating and estimating rhenium. p. 1295."

P. 1295 (Chemicke Listy, Vol. 51, no. 7, July 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 7, July 1958

Z/009/61/0**00**/001/003/006 E112/E153

AUTHORS: Kroužek, E. and Patrovský, V.

TITLE: Analysis of Technical Germanium Dioxide PERIODICAL: Chemický Průmysl, 1961, No.1, pp.24-26

The main sources for the production of germanium are flue dusts and by-products of zinc ores, from which germanium can be separated as the easily volatile germanium tetrachloride. The redistilled germanium tetrachloride may be contaminated with Germanium dioxide is isolated from the arsenic trichloride. chloride by hydrolysis with superheated steam or by treatment with ammonia and the crude dioxide will then contain as impurities: chloride, ammonia, arsenic and water. The authors have developed a rapid method for the analysis of the different components of the germanium dioxide process, which they claim is very suitable for works control. Analysis of germanium by volumetric methods is based on the change of pH on the addition of pyrocatechol to a neutralised solution of germanium dioxide. Arsenic does not interfere in the reaction. Details of titration are: 0.1-0.2 g crude germanium dioxide are dissolved Card 1/3

Z/009/61/**0**00/001/003/006 E112/E153

Analysis of Technical Germanium Dioxide

by boiling in 100 ml distilled water. After complete solution, the solution is cooled and diluted with water to about 250 ml. The pH is adjusted to pH 5 by the addition of either NaOH or HC1. Control by pH-meter (indication by methyl red not accurate). 0.3 g of solid pyrocatechol are then added, with rapid stirring by means of an electromagnetic stirrer. The solution is titrated with 0,1N-NaOH to a pH 5 (on pH-meter). 1 ml 0.1 N-NaOH = 3.63 mg Ge = 5.25 mg GeO₂. Of the gravimetric methods for the analysis of germanium, the authors have found the formation of salts from germanomolybdic acid the most promising. However, only the salts with 8-hydroxyquinoline gave reproducible results. The method is not recommended for quantities exceeding 3.5 g germanium. photometric method was also studied and phenylfluorone, which gives a very sensitive red colouration, was confirmed as suitable reagent. The method is recommended for the analysis of flue dusts. Analyses for chlorine, ammonia and arsenic follow conventional lines. They were, however, conducted in order to

APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R001239

Z/009/61/000'001/003/006 E112/£153

Analysis of Technical Germanium Dioxide

establish whether germanium dioxide interfered with the analytical method. It was found that this was not the case. The three constituents were determined in a single sample of the solution as follows: Ammonia - Kjeldahl method; Chlorine - titration with silver nitrate in presence of sodium nitroprusside; Arsenic - iodometric titration (starch). Acknowledgements are expressed to Engineer Jan Stanek for supplying the required pure materials.

There are 6 references: 2 German, 2 English, 1 Czech and 1 Soviet.

ASSOCIATION: Ústav nerostných surovin, Praha

(Institute of Inorganic Raw Materials, Prague)

SUBMITTED: April 21, 1960

THE SHARE THE PROPERTY OF THE

Card 3/3

Patrovskii, Ventueslav [Patrovský, Věnceslav], inzh.; SAVESVICH, S.S.
[translator]; PCFOV, M.P., neuchnyy red.; AFARAS'ISTA, Iu.H.,
red.izd-va; BYKOVA, V.V., tekhn.red.

[ānelytical chemistry of the rare elements. Translated from the
Gasch] Ansliticheskais khimiia redkikh elementov. Pod red. M.P.
Popove. Moskva, Gos.neuchno-tekhn.isd-vo lit-ry po geol. i
okhrane nedr., 1960. 175 p.
(Metals, Rare and minor-Analysis)

(Metals, Rare and minor-Analysis)

HANZLIK, Jen. Alik, Printinsk, 1950 Tak., 2010 g. Geleghtevar the lever zhellik, Jener from the repairmental way the reliable to the Jadores energies 10 mo.11:3500000 h. Pm.,

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PATROVSKY, V. Contribuion to the photometric determination of gold by the extraction of bromoaurate (III). Coll Cz Chem 27 no.7:1705-1708

1. Institut fur mineralische Rohstoffe, Prag.

JI 162.

CZECHOSLOVAKIA/Analytic Chemistry. Analysis of Inorganic Substances.

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77256.

: Patrovsky, Venceslav. Author

Inst

Title

: Application of Chelates to Chemical Analysis. LIII. Photometric Determination of Niobium and Tantalum Using Pyrocatechin and Ethylenediaminetetraacetic

Acid.

Orig Pub: Chem. listy, 1958, 52, No 2, 255-261.

Abstract: The earlier described photometric method (Tomicek

0., Jerman L., Chem. listy, 1952, 46, 144) was modified for the determination of Ta, and an analogous method for Nb determination was developed. These methods are based on the formation of colored

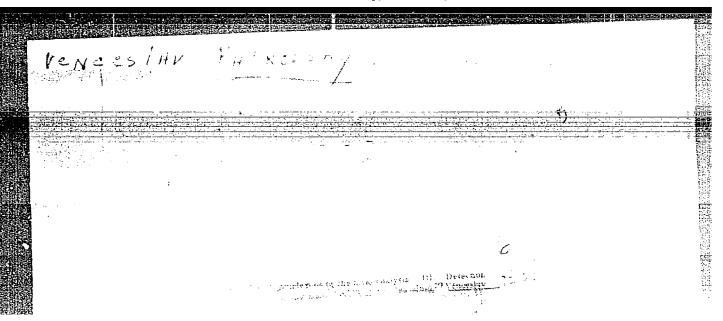
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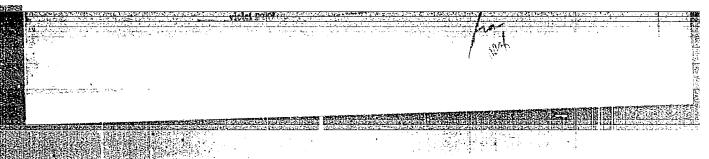
APPROVED FOR RELEASES Wednesday, June 21, 2000 CIA-RDP86-00513R00123 Substances.

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77256.

Ta and Nb chelates with pyrocatechin (I) and ethylenediaminetetraacetic acid (II) at pH = 2.5. The measurement of the light absorption by the yellow Ta chelate with I is carried out at about 400 m m (violet light filter), and that of the red Nb chelate with I is carried out at 470 m \u03b4 (blue light filter). The composition of both the chelates is expressed by the ratio Ta (Nb) : II = 1 : 1. The chelates are produced only at a 4,000-fold excess of I; the intensity of their color strongly depends on the concentration of I. Tiron, pyrogallol, gallic acid, 1,2dioxynaphthalene and chromotropic acid behave similarly in respect to Ta and Nb. The presence of II is especially advantageous due to the fact that II sequesters

Card : 2/4





FATROVSKY, V. : HUKA, ".

"Complexometric titrations (chelatometry). XXII. Volumetric analysis of iron, aluminum, and titanium in silicates. Remarks on the complexometric analysis of calcium of magnesium. In German."

p. 37 (Journal on chemistry and bloc emistry - Czechoslovak Academy of Science) Vol. 22, No. 1, Feb. 1957

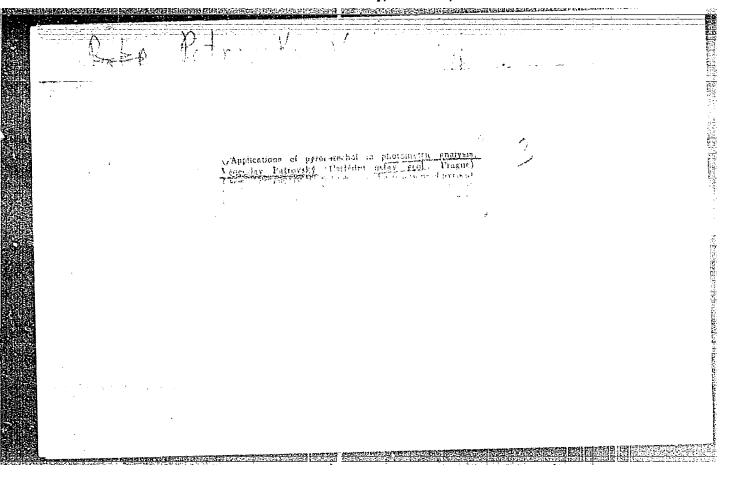
SD: Monthly Index of East European Accession (MEAI) LC, Vol. 7, No. 5, May 1958

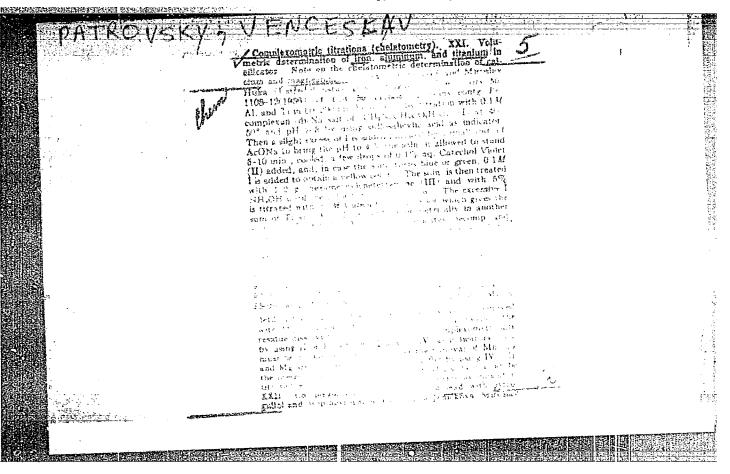
FATROVSKY, V.

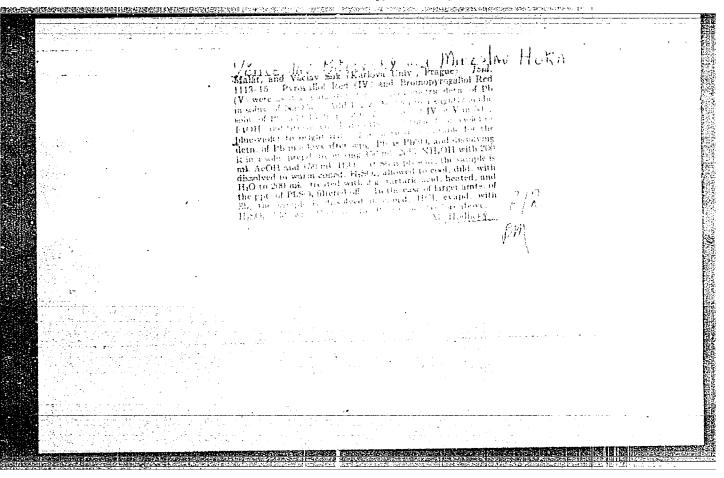
"Useof complexones in chemical analysis. LII. Detection of boron, germanium, niobium, and tentalum by Pyrocatechol Violet."

p. 968 (Institute of Applied Physics - Czechosolovak Academy of Science) Vol. 51, No. 5, May 1957

SO: Monthly Index of East European Accession (EdAI) LC, Vol. 7, No. 5, May 1958

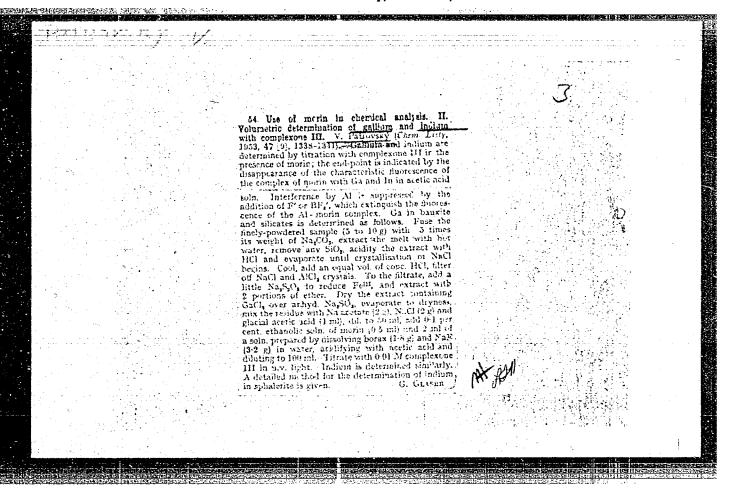






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Isolatics and determination of small amounts of indiam with sodiam diethylditalocarbamate. Viocatay Entroyly (Viringums dietay koya, Panensko seventy Cacon, Lidy 48, 1047-0041954). Panensko seventy Cacon, Lidy 48, 1047-0041954). Patancsko il quantitatively ppts. In at pli 7-11. Detn. of in in the presence of large excesses of 8n, 8h, 8n, 7e, and Cu requires special procedures. To det, in in ores conts, 2n and 7e, a 6-20-g, sample is decompd, with aqua regia, HCl, or by fusing. The resulting solm, is evand, with 10-30 mit coned. H-80, the soln, is cooled and dild, to a H-80, conen, of 5-8%, the SiO, and PbSO, are removed, and the acidity is brought to pH 1 with NH. The Fe is reduced with the required ann. of Nas-Co, the soln, is boiled to sep, suffices of Cu, Bi, Sb, Ag, and Pb, Cahana, is added (pH 6), the soln, is boiled, and the ppt, is filtered with suction, washed with warm water, dissolved in HCl, boiled after addn. of KClO, pptd, with I in the presence of Cn and tartmet, and transformed to oxide. From ores conts, 8n and W, 8n must be removed prior to detn, of In. M, Hudlicks.	